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January 13, 2003

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DEPT. OF TRANSPORTATION
BRIDGE & STRUCTURE

TO:

J. Kapur/P. Clarke.

Bridge and Structures, 47340

FROM:

Allen/W.S. Hegge

SC Geotechnical Branch, 47365

SUBJECT:

SR-104, OL 3305

Hood Canal Bridge Replacement, MP 13.93 to 14.70

Additional Geotechnical Recommendations for Anchor Design

As requested by Bridge and Structures, we have prepared the following supplemental memorandum revising our recommendations for the Type II anchors.

Our report for this project entitled "Geotechnical Recommendations for Anchor Design" dated October 9, 2002, provides recommendations for Type II anchors at the project site. At that time, the Type II anchors had a height of 27 feet and a diameter of 46 feet with a 50 by 50 foot square concrete base to provide a larger bearing area. Since our original report, the proposed graving dock channel draft limitation has necessitated a redesign of the Type II anchors. Now the Type II anchors will have a height of 27 feet and a diameter of 56 feet. The Type I anchor remains unchanged. One anchor, Anchor WM, will be a special design. The base diameter of this anchor will be increased to 60 feet by adding a concrete lip around the base of the anchor.

Based upon our analyses, we recommend that the list of anchor types and weights contained in our previous memorandum be used for the new anchor designs. The recommended anchor types and weights will achieve adequate factors of safety against sliding and bearing capacity failure.

If you have questions or require further information, please contact William Hegge at (360) 709-5415.

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